

Tip

When a macro is called as a Calc function, the macro cannot modify any value in the sheet from which the macro was called, except the value of the cell that contains the function.

Sorting

Consider sorting the data shown in Figure 444. First, sort on column B descending and then on column A ascending.

	A	B	C
1	1	5	One
2	4	1	Two
3	3	1	Three
4	7	8	Four
5	4	2	Five

Becomes

	A	B	C
1	7	8	Four
2	1	5	One
3	4	2	Five
4	3	1	Three
5	4	1	Two

Figure 444: Sort column B descending and column A ascending

The example in Listing 9 demonstrates how to sort on these two columns. Run the macro by clicking the **Run** icon in the Macro toolbar of the LibreOffice Basic IDE.

Listing 9. SortRange sorts cells A1:C5 of Sheet 1

```
Sub SortRange
  Dim oSheet          ' Calc sheet containing data to sort.
  Dim oCellRange     ' Data range to sort.

  REM An array of sort fields determines the columns that are
  REM sorted. This is an array with two elements, 0 and 1.
  REM To sort on only one column, use:
  REM Dim oSortFields(0) As New com.sun.star.util.SortField
  Dim oSortFields(1) As New com.sun.star.util.SortField

  REM The sort descriptor is an array of properties.
  REM The primary property contains the sort fields.
  Dim oSortDesc(0) As New com.sun.star.beans.PropertyValue

  REM Get the sheet named "Sheet1"
  oSheet = ThisComponent.Sheets.getByName("Sheet1")

  REM Get the cell range to sort
  oCellRange = oSheet.getCellRangeByName("A1:C5")

  REM Select the range to sort.
  REM The only purpose would be to emphasize the sorted data.
  'ThisComponent.getCurrentController.select(oCellRange)

  REM The columns are numbered starting with 0, so
  REM column A is 0, column B is 1, etc.
  REM Sort column B (column 1) descending.
  oSortFields(0).Field = 1
  oSortFields(0).SortAscending = FALSE
```